

Department of Biomedical and Clinical Technology M L Sultan Campus

BACHELOR OF TECHNOLOGY: CLINICAL TECHNOLOGY (BTCLT1)

1. Programme Information

The ‘revised’ B Tech: Clinical Technology has four assessable modules which students are expected to complete in order to be awarded a degree as outline in the table below:

MODULES/SUBJECTS	FULL TIME	PART TIME	
	Year 1	Year 1	Year 2
1. Research Methodology	1 st Semester	1 st Semester	
2. Principles of Management 1	1 st Semester	1 st Semester	
3. Clinical Technology Research Project	Annual		Annual
4. Advanced Specialist Category Technology	Annual		Annual

The Advanced Specialist Category Technology is aligned with National Diploma: Clinical Technology specialist module/subject that you have already completed. All students who are interested to pursue the B Tech: Clinical Technology programme, must be currently working as a registered Clinical Technologist in Clinical Technology unit supervised by a Graduate Clinical Technologist.

N.B: All lecturers are held at the Durban University of Technology (DUT), M L Sultan Campus as scheduled. It is mandatory and compulsory to attend all lectures.

2. Purpose of the Programme

On completion of the qualification the student will be able to independently:

- Perform advanced diagnostic, therapeutic, corrective procedures and organ system support on patients using specialised equipment and techniques for the treatment and/or interpretation of a diagnosis of abnormalities and disease.
- Provide training to Clinical Technology students and any other medical personnel;
- Manage clinical technology practice strategically to ensure quality service;
- Conduct and co-ordinate research in the Clinical Technology and any other related fields.

3. Instructional Strategies

The instructional strategies for teaching and learning is active learning where students are encouraged to actively engaged and participate in independent self-regulated learning that is facilitated by the Graduate Unit Supervisor (GUS) and the Durban University of Technology (DUT) B Tech Co-Ordinator. Block lectures are conducted at the beginning of the year (January/February), and student support is provided via email and face-to-face (F2F) format throughout the programme offering. Students will be allocated a DUT supervisor to assist in the process and successful completion of their Clinical Technology Research Project, and related academic tasks such as Portfolio.

4. Assessment

The template below indicate the variety of assignments and written academic tasks for individual modules/subjects:

Modules/Subjects	Assignments	Test	Exams	Portfolio
1. Research Methodology	3	-	-	
2. Principles of Management 1	2	1	1	
3. Clinical Technology Research Project				
4. Advanced 'Specialist Category' Technology	1			1

The **Research Methodology** utilize Continuous Assessment (CA) as a strategy that comprises of three (3) assignments, i.e. 2 assignments (Statistics & Research Methods) and a research proposal (Specialist Category). The research proposal must be ethically cleared (ethical clearance) by the Departmental Research Committee (DRC) before commencement with data gathering/collection.

The module/subject, **Principle of Management 1** use two (2) assignments, one (1) written theory assessment, and final examination for assessment. The written theory assessment and final examination are conducted at DUT, M L Sultan Campus at the end of the first semester. The

Advanced ‘Specialist Category’ Technology module/subject utilize CA through a Clinical Proficiency (60%) and an ePortfolio (40%). This module/subject comprises of topics for individual seven specialist categories which are outlined in individual study guides. These topics are part of the procedures and techniques that the students are to know, understand and perform, and are to be compiled as part of the portfolio.

The table below indicate the respective lecturers for specialist categories:

Lecturer	Specialist Category	Office No.	Email
Mr M J Mohapi	Perfusion 4, Neurophysiology 4, Reproductive Biology 4	031-373 5296	mohapij@dut.ac.za
Dr R D Prakashandra	Cardiology 4	031-373 6885	RosaleyPRA@dut.ac.za
Mr M E Memela	Critical Care 4	031-373 5293	memelame@dut.ac.za
Dr S Benjamin	Nephrology 4	031-373 3080	sherileneb@dut.ac.za

5. Portfolio

A portfolio is a compilation of a student's best work relevant to the course of study. It will contain samples of academic and professional work i.e. various procedures undertaken, attendance and presentations at workshops, journal clubs and congresses for accumulation of CPD points. Preparation and evaluation of a portfolio emphasizes the performance of the individual student, with a focus on the academic and professional accomplishment of the student, with particular emphasis

on the student's best work.

The material is typically placed in an expandable file folder that is established by you. The role of the professional portfolios emphasize summative evaluation. You must compile, analyse, interpret and give comments on the actual samples of work collected and procedures undertaken. Also make sure that you complete the monthly record of procedures performed which has to be signed by you and your unit head. The quality of a portfolio depends heavily if not entirely on the validity of its interpretation and use.

6. Research Project

The **Research Project** utilize CA, and it include the (a) **research project (70%)** and (b) **poster (30%)** for the computation of the final mark. The project affords you the opportunity to lay a sound foundation for any forthcoming research projects that might cross your path in the future. With regard to the project, you must initially identify the topic to be researched as well as an external supervisor (preferably with a higher qualification than the B Tech Degree) who is willing to guide and assist you with the investigation [written undertaking by the supervisor must be submitted to the department on registration]. You should also research the topic before attending the lectures in January, i.e., the importance of the study, the research question or the aims and objectives of the study, what research has been conducted locally and internationally in this area and the methodology. This must be a one page concept document in the format attached.

The **Poster** is developed once student has completed collecting data and finalizing the write-up of the research project. This equips the student with the design and presentation skills and best posters are displayed in the institutional research day.

7. Faculty Office

Mr Vikesh Singh is the Faculty Officer of the Faculty of Health Sciences. His office is situated at the Ritson Road Campus. His telephone number is 031- 3732701. His office provide services such as student applications and registration, academic records and administration, publication of academic results, and any changes of students' particulars. This is the nerve center of the faculty.

All the best!

Mr M J Mohapi, Senior Lecturer & B Tech Co-Ordinator.